

# JOURNAL DE MATHÉMATIQUES PURES ET APPLIQUÉES

170<sup>e</sup> année, 9<sup>e</sup> série, Tome 84

Fascicule 7, juillet 2005

FONDÉ EN 1836 ET PUBLIÉ JUSQU'EN 1874 PAR JOSEPH LIOUVILLE

COMITÉ DE RÉDACTION

TH. AUBIN, J.M. BALL, PH. CIARLET, J.-P. DEMAILLY, G. GALLAVOTTI,  
P.-L. LIONS, P. MALLIAVIN, Y. MEYER, E. SANCHEZ-PALENCIA

Rédacteur en chef : PAUL MALLIAVIN

sli@ccr.jussieu.fr

Secrétaire de Rédaction : GÉRARD TRONEL

*Le Journal de mathématiques pures et appliquées* est indexé dans :

Current Contents (PC & ES), Mathematical Reviews, Zentralblatt für Mathematik, Current Mathematical Publications, MathSci, Science Citation Index, SciSearch, Research Alert, CompuMath Citation Index.

---

**Publication information:** *Journal de mathématiques pures et appliquées* (ISSN 0021-7824). For 2005, volume 84 is scheduled for publication. Subscription prices are available upon request from the Publisher or from the Regional Sales Office nearest you or from this journal's website (<http://www.elsevier.com/locate/matpur>). Further information is available on this journal and other Elsevier products through Elsevier's website: (<http://www.elsevier.com>). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, air delivery outside Europe). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch.

**Orders, claims, and journal enquiries:** please contact the Customer Service Department at the Regional Sales Office nearest you:

**Orlando:** Elsevier, Customer Service Department, 6277 Sea Harbor Drive, Orlando, FL 32887-4800, USA; phone: (+1) (877) 8397126 [toll free number for US customers], or (+1) (407) 3454020 [customers outside US]; fax: (+1) (407) 3631354; e-mail: [usjcs@elsevier.com](mailto:usjcs@elsevier.com)

**Amsterdam:** Elsevier, Customer Service Department, PO Box 211, 1000 AE Amsterdam, The Netherlands; phone: (+31) (20) 4853757; fax: (+31) (20) 4853432; e-mail: [nlinfo-f@elsevier.com](mailto:nlinfo-f@elsevier.com)

**Tokyo:** Elsevier, Customer Service Department, 4F Higashi-Azabu, 1-Chome Bldg, 1-9-15 Higashi-Azabu, Minato-ku, Tokyo 106-0044, Japan; phone: (+81) (3) 5561 5037; fax: (+81) (3) 5561 5047; e-mail: [jp.info@elsevier.com](mailto:jp.info@elsevier.com)

**Singapore:** Elsevier, Customer Service Department, 3 Killiney Road, #08-01 Winsland House I, Singapore 239519; phone: (+65) 63490222; fax: (+65) 67331510; e-mail: [asiainfo@elsevier.com](mailto:asiainfo@elsevier.com)

## Author enquiries

For enquiries relating to the submission of articles (including electronic submission where available) please visit Elsevier's Author Gateway at <http://authors.elsevier.com>. The Author Gateway also provides the facility to track accepted articles and set up e-mail alerts to inform you of when an article's status has changed, as well as detailed artwork guidelines, copyright information, frequently asked questions and more. Contact details for questions arising after acceptance of an article, especially those relating to proofs, are provided after registration of an article for publication.

**USA mailing notice:** *Journal de mathématiques pures et appliquées* (ISSN 0021-7824) is published monthly by Elsevier SAS (PO Box 211, 1000 AE Amsterdam, The Netherlands). Annual subscription price in the USA US\$ 975 (valid in North, Central and South America), including air speed delivery. Application to mail at periodical postage rate is pending at Jamaica, NY 11431.

**USA POSTMASTER:** Send address changes to *Name of journal*, Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11003.

**AIRFREIGHT AND MAILING** in the USA by Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11003.